Freecom DiskWare™ A4T & F4T

Low-cost desktop harddisk system
RAID Disk Array on Ultra 2 SCSI or FireWire

- The fastest and easiest way to add harddisk storage to your server or desktop system at an affordable price.
- Manages explosive data growth and reduces business downtime.
- Easy to install : preconfigured RAID 5 setup, installs like a giant external SCSI harddisk.
- Supports JBOD, RAID 0, 1 , 0+1, 3 and 5.
- Operating System independent.
- Connects to the server through the U2SCSI connection (A4T) or IEEE1394A FireWire (F4T).
- 3 years warranty with 1 year Advanced Replacement Service (ARS).
- Unlimited free technical support via E-mail and phone.
- Pre-installed harddisks included with up to 720 GB gross storage capacity (Nett. : 540 GB in RAID 5).
- Auto-rebuild in case of a harddisk failure.

RAID Levels supported :

RAID Level	Common Name	Description	Array Capacity	Data Reliability	Data Transfer Capacity	Minimum Drives Required
0	Disk striping	Data distributed across the disks in the array. No redundant information provided.	(N) disks	Low	Very High	2
1	Disk mirroring	All data duplicated	(N/2) disks	Very High	High	2
3	Parallel transfer disks with parity	Data sector is subdivided and distributed across all data disks. Redundant information stored on a dedicated parity disk.	(N-1) disks	Very High	Highest of all listed alter-natives	3
5	Independent access Array with rotating parity	Data sectors are distributed as with disk striping, redundant information is interspersed with user data.	(N-1) disks	Very High	Very High	3
0+1	Disk-Striping + Disk-Mirroring	Combined "striping and mirroring function without parity. Fast data access and single drive fault tolerance.	(N/2) disks	Very High	High	4

The amount of data stored is expected to continue expanding at explosive rates over the next five years. Analysts predict that enterprise storage will account for 75% of all computer hardware expenditure. For this reason, Freecom has launched a complete new range of products, the Freecom DiskWare™ Series. Freecom DiskWare™ products stand for easy to install, easy to manage, Operating system Independent RAID Solutions. The Freecom Diskware™ products ensure continuous access to critical applications and data through hot swappable components in combination with RAID. The A4T/F4T are ideal for users who need small RAID system in a stand alone or shared environment.

Every user who is short of harddisk space should be able to setup one of the Freecom DiskWare™ products within 15 minutes. Every Freecom DiskWare™ product comes with a multilingual Quick Install Guide, a manual on CD, ready to use pre-installed harddisks and free helpline support. To guarantee high levels of service, Freecom offers ARS (Advanced Replacement Service) support for the first year . This service is included and reduces your business downtime. Freecom will ship a free replacement unit the same day the failure is registered.

FREECOM
THE FUTURE IS SIMPLE!

Freecom DiskWare™ A4T & F4T

		Freecom DiskWare™ A4T	Freecom DiskWare™ F4T
Product		Freecom DiskWare™ A4T	Freecom DiskWare™ F4T
Controller		Intel i80303 64-bit RISC	Intel i960 RN RISC
Capacity		540 GB in RAID 5, 720 GB native	540 GB in RAID 5, 720 GB native
Cache Memory		64-512 MB SDRAM upgradable (64 MB Pre-installed)	64-512 MB SDRAM upgradable (64 MB Pre-installed)
RAID Levels		0,1, 0+1, 3 or 5 (Pre-configured RAID 5)	0,1, 0+1, 3 or 5 (Pre-configured RAID 5)
Data Transfer Rate		Up to 80 MB/s	Up to 50 MB/s
Interface:	***Host Bus*** ***Disk Bus***	Ultra2 SCSI Ultra ATA-100	FireWire (1394A) Ultra ATA-100
I/O connections		2x 68pin High Density SCSI	2x FireWire 1394
Drives		Hot Swappable 4 Pre-installed 3.5" 180 GB E-IDE drives	Hot Swappable 4 Pre-installed 3.5" 180 GB E-IDE drives
Hot Swap Components		Harddisk trays, cooling fan	Harddisk trays, cooling fan
Host Requirement		Host Independent and Transparent	Host Independent and Transparent
Operating System		O/S Independent and Transparent	O/S Independent and Transparent
Data Rebuild		Automatic Data Regeneration	Automatic Data Regeneration
Power Supply Capacity		1 x 200 W	1 x 200 W
AC Input Voltage		110/220V (+/- 10 %), 60/50 Hz	110/220V (+/- 10 %), 60/50 Hz
Relative Humidity		10 % to 85 % non-condensing	10 % to 85 % non-condensing
Operating Temperature		5 °C ~ 40 ° C	5 °C ~ 40 ° C
Non-Operating Temperature		-25 °C ~ 60 °C	-25 °C ~ 60 °C
Dimensions		290(H) x 165 (W) x 285 (D)mm 13.3(H) x 6.4 (W) x 11.1 (D) inch	290(H) x 165 (W) x 285 (D)mm 13.3(H) x 6.4 (W) x 11.1 (D) inch
Weight		6 kgs (w/o harddisks)	6 kgs (w/o harddisks)
Package includes:		• DiskWare™ A4T (U2SCSI) or F4T (IEEE 1394) • 4 Pre-installed 3.5" 180 GB E-IDE drives • SCSI or FireWire Cable, European or UK Power Cord • Quick Install Guide in 4 Languages (UK, FR, DE), Manual on CD • 1 year Advanced Exchange Warranty + 2 year Carry-In Warranty	

Advised Tape Backup product to use with this product (only for the A4T) :

15825	TapeWare LTO-215es Ultrium HH ext. kit 100-200 GB, 7,5-15MB/s
15503	TapeWare LTO-230es Ultrium FH ext. kit 100-200 GB, 15-30MB/s
19932	TapeWare LTO-460es Ultrium FH int. kit 200-400 GB, 30-60MB/s

	Freecom DiskWare™ A4T 540/720 GB	**Freecom DiskWare™ F4T 540/720 GB**
Art. No. EU/UK	*20595*	*20596*
EAN Code EU/UK	4021801205957	402180120259 64
Capacity	540GB in RAID 5/720 GB native	540GB in RAID 5/720 GB native
Ultra2SCSI RAID	Ultra2SCSI RAID	FireWire RAID System

3 YEARS WARRANTY freecom

ARS ADVANCED REPLACEMENT SERVICE

WWW.FREECOM.COM

FREECOM
THE FUTURE IS SIMPLE!

ref. MM/BV/20-03-2003